

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Kennecott Utah Copper</u>			
Mine Name: <u>Bingham Canyon Mine</u>		File Number: <u>M/035 / 002</u>	
Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.			
DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 2-1 with Figure 2-1(R2) in the BCM 2003 Reclamation and Water Management Plan.
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 3-7 with Figure 3-7(R2) in the BCM 2003 Reclamation and Water Management Plan.
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Table 2-1(R2) with Table 2-1(R3) in the BCM 2003 Reclamation and Water Management Plan.
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations herein.

ROMAN M'GOWAN-JACKSON
Print Name

R. McGowan-Jackson MGR HSE+SD
Sign Name, Position

Date 2/16/07

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210

File in:

☐ Confidential

☐ Shelf

☒ Expandable

Refer to Record No. 0006 Date 2-16-07

In M/ 035/002, 2007, Income

For additional information

5801
(801) 359-3940

FOR DOGM USE ONLY:

File #: M/ /

Approved: _____

Bond Adjustment: from (\$)
to \$

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, HIGHLAND BOY DRAINAGE
GALLERY¹**

PERMIT M/035/002

KENNECOTT UTAH COPPER (KUC)

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

File in:

☐ Confidential

☐ Shelf

☒ Expandable

Refer to Record No. 070001 Date _____

In Permit# M0350002

For additional information 4: Incoming

¹ KUC is of the opinion that the activities addressed in this form are within the approval envelope associated with the existing NOI and are therefore an update and not an amendment. For DOGM's convenience and at its request, KUC has provided the updated information on Form MR-REV. Submission of this form should not be construed as a KUC admission that DOGM approval is required.

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 2-1 (R2)

Figure 2-1 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing surface facilities in the vicinity of the Bingham Canyon Mine. Figure 2-1 has been updated (Figure 2-1 (R2)) with 2006 topography as well as current mine facilities at the 6190 foot elevation and the location of two surface portals for the Highland Boy Drainage Gallery (HBDG). Other than the portals and some minor ancillary facilities (i.e. substation), there will be no additional surface facilities or structures associated with the HBDG project. The approximate location of these facilities are depicted in the attached updated Figure 2-1 (R2), contained within Appendix 1.

Figure 3-7 (R3)

Figure 3-7 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing well, shaft and tunnel water elevations within Paleozoic bedrock from spring 2001 in addition to locations of tunnels, shafts and underground workings. Figure 3-7 has been updated to Figure 3-7 (R3) and now includes the planned Highland Boy Drainage Gallery (HBDG) underground workings. Figure 3-7 (R3) is contained within Appendix 2 of this document.

III. OPERATION PLAN

Current Situation in the Highland Boy Area

The Highland Boy area is located in the south west corner of the open pit. This area is surrounded from above by a large drainage area comprising native water sheds as well as pit slopes and old waste rock dumps. Approximately 950 acres of native areas between Sap and Muddy Gulch as well as pit slopes and waste rock dumps that drain into the Highland Boy corner of the open pit. While some of this water is already

collected via existing pit pumping activities, a portion of the water is perched and thus not drained through existing pit dewatering. The presence of perched water in the Highland Boy corner of the open pit is presenting a safety challenge with respect to the current open pit mine plan. To facilitate safe ore access in the Highland Boy corner of the open pit, KUC has plans to construct a depressurization drainage gallery. The drainage gallery will depressurize this area of the pit wall more quickly and efficiently than horizontal drain holes of that kind being utilized in other areas of the pit. As with the water from these existing drains and other tunnels that drain into the pit, the Highland Boy water will be directed to the existing in pit sump.

Highland Boy Drainage Gallery

In general the Highland Boy Drainage Gallery (HBDG) consists of the design, engineering and construction of two surface portals at the bottom of the Bingham Canyon open pit that will be connected by 8,200 feet of underground workings. The underground workings will consist of a 15-ft by 15-ft underground drift, while the two portals will be 18-ft by 18-ft with 100-ft of lateral drift. Inside the HBDG, KUC will install twelve drilling stations to facilitate additional depressurization as well as two sump pump stations and associated water collection piping. Additional facilities will consist of ventilation, electrical and communication distribution systems as well as two pump stations to discharge water to the existing pit pumping sump. The HBDG workings may also provide access for underground exploration and resource assessment activities.

The two surface portals will daylight at an elevation of approximately 4765 feet amsl in the Bingham Canyon open pit. As KUCC continues to mine in the area, the portals will be continually re-established with each pushback. In addition to the two portals, surface facilities will also include a substation. At the end of mine life, all surface facilities will be removed except for any which may be needed to support any continued depressurization efforts.

The total number of surface acres affected and permitted disturbed acreage remains consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with the HBDG project will take place within the current disturbed footprint and will not result in any newly disturbed areas.

There will be no major changes to the operating plan, as KUC will continue to operate open pit mining, removing ore, placing waste rock on top of existing waste rock dumps and continuing exploration and dewatering activities within the permit boundaries and existing disturbed areas. In addition, KUC's general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps (Figure 4-6) will not change as a result of this activity.

Figure 2-1 and Figure 3-7 have been updated to include HBDG surface and underground workings, while Table 2-1 has been updated to include HBDG and associated dewatering utilities. Appendix 3 contains an updated version of Table 2-1 (R3) while Appendix 4 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The HBDG will not impact KUC's reclamation commitments. KUC is installing mine workings to facilitate depressurization of perched water within the existing open pit high wall. The HBDG will allow KUC to safely access ore in the area for open pit purposes. Surface facilities not associated with post closure dewatering activities will be removed once mining activities at the Bingham Canyon mine cease. There will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. There will be no additional impacts to surface or groundwater systems beyond the impacts that already exist from dewatering due to open pit operations. KUC has been conducting dewatering activities in the Bingham Canyon mine open pit for the past 100 years. Since KUC will be dewatering a hydraulically isolated perched water zone in the pit wall, no impacts are expected to the regional water table.

During initial dewatering efforts from the HBDG, KUC will likely observe a short term surge in flows to the pit pumping sump, however within approximately 3 months the flow should reach steady state and only fluctuate seasonally.

3. The HBDG will be constructed within the existing disturbed footprint of the Bingham Canyon mine open pit and thus will not impact existing soil resources.
4. Construction of the HBDG will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). Since the HBDG will be constructed within the disturbed area of the Bingham Canyon mine open pit, there will be no additional disturbance of native ground and thus the project will not further degrade surface erosion or slope stability.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation. KUCC continues to plan reclamation treatments consistent with Figure 4-6 as well as the Lower Bingham Canyon commitments outlined in the January 21, 2003 letter to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

APPENDIX 2

Figure 3-7 (R3)

RECEIVED
APR 12 2007
DIV. OF OIL, GAS & MINING

KENNECOTT UTAH COPPER CORPORATION

SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007

APPENDIX 1

Figure 2-1 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

- Figure 3-7 (R3) Locations of Underground Mine Workings and Water levels in the Paleozoic Bedrock Aquifer around the Bingham Canyon Mine Open Pit (2006)
- Table 2-1 (R3) Facilities and Structures within the Permit Boundaries.

Figure 2-1 (R2) has been updated to show the 2006 mine topography as well as current locations of mine facilities at the 6190 foot elevation. Figure 2-1(R2) also shows the location of two in-pit surface portals associated with the Highland Boy Drainage Gallery. KUC suggests that the attached Figure 2-1 (R2) replaces the existing Figure 2-1 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

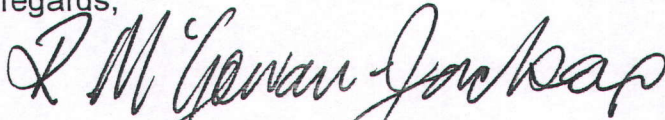
Figure 3-7 (R3) includes updated information associated with Paleozoic bedrock water elevations for existing wells, shafts and tunnels as well as the location of planned underground workings associated with the Highland Boy Drainage Gallery. KUC suggests that the attached Figure 3-7 (R3) replaces the existing Figure 3-7 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Table 2-1 has been updated to include HBDG. KUC suggests that the attached Table 2-1 (R3) replaces the existing Table 2-1 (R2) within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that the installation of the Highland Boy Drainage Gallery will adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards,



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

APPENDIX 3

Table 2-1 (R3)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
MINE		
Water Tanks	Demo and Reclaim	Final
General Buildings	Demo and Reclaim	Final
Visitors Center and Parking Area	Leave in Place	N/A
Lead Mine Townsite	Demo and Reclaim	Final Completed
Lark Mine Buildings	Demo and Reclaim	Final
Yosemite Road	Demo and Reclaim	Final
Yosemite Truck Shop & Dispatch Tower	Demo	Final Completed
Explosive Storage	Demo and Reclaim	Final
Dry Fork Warehouse & Shops	Demo	Interim Completed
In-Pit Crusher	Demo	Final
6190 Truck Shop	Demo	Final
Code 80 Fuel & Lube Shop	Demo and Reclaim	Final
Miscellaneous Shafts	Demo and Reclaim	Final
44 KV Power Distribution Line	Leave in Place	N/A
Power Lines and Miscellaneous Shafts Associated w/Dewatering (i.e. North Ore Shoot and Highland Boy Drainage Gallery)	Leave in Place	N/A
North Ore Shoot Hoist and Head Frame	Demo and Reclaim	Final
Miscellaneous Power Lines	Demo and Reclaim	Final
Miscellaneous Tunnels	Demo and Reclaim	Final
Mine Access Road	Leave in Place	N/A
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
MINE WASTE DISPOSAL		
Small Bingham Reservoir	Leave in Place	N/A
Large Bingham Reservoir System	Leave in Place	N/A
Precipitation Plant (Remaining Facilities)	Demo, Remed and Reclaim	Interim Final (1)
Water Management System Facilities	Leave in Place	N/A
ARD Collection System Facilities	Leave in Place	N/A
Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (1) (2)
ORE TRANSFER MINE TO PROCESS		

Ore Reload	Demo and Reclaim	Final
Rail Tracks and Ties	Demo and Reclaim	Interim
Rail Ballast	Remed and Reclaim	Interim
Copperton Rail Yard	Demo and Reclaim	Final
Railroad Car Repair Shop	Demo and Reclaim	Final
Ore Conveyor (in-pit and 5490 Tunnel)	Demo	Final
Asphalt/Concrete Areas	Demo and Reclaim	Final

ORE PROCESSING FACILITIES

Magna Concentrator Area	Demo, Remed and Reclaim	Interim
Magna Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
Arthur Shops Area	Demo and Reclaim	Final
Arthur Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
Bonneville Area	Demo and Reclaim	Final Completed
Bonneville Asphalt/Concrete Parking Areas	Demo and Reclaim	Final Completed

TAILINGS DISPOSAL

Magna Tailings Pond Structures	Demo and Reclaim	Interim
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EXCESS PROCESS WATER DISPOSAL

Excess Process Water Disposal Structures	Leave in Place	N/A
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NOTE: Any facilities to be left in place will have a post mining use.

(1) The majority of facilities were demolished in 2005.

(2) As described in Section 5, follow-up remediation is currently planned to remove gypsum-bearing sludge from the repository in the Evaporation Pond area.

APPENDIX 3

Table 2-1 (R3)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
MINE		
Water Tanks	Demo and Reclaim	Final
General Buildings	Demo and Reclaim	Final
Visitors Center and Parking Area	Leave in Place	N/A
Lead Mine Townsite	Demo and Reclaim	Final Completed
Lark Mine Buildings	Demo and Reclaim	Final
Yosemite Road	Demo and Reclaim	Final
Yosemite Truck Shop & Dispatch Tower	Demo	Final Completed
Explosive Storage	Demo and Reclaim	Final
Dry Fork Warehouse & Shops	Demo	Interim-Completed
In-Pit Crusher	Demo	Final
6190 Truck Shop	Demo	Final
Code 80 Fuel & Lube Shop	Demo and Reclaim	Final
Miscellaneous Shafts	Demo and Reclaim	Final
44 KV Power Distribution Line	Leave in Place	N/A
Power Lines and Miscellaneous Shafts Associated w/Dewatering (i.e. North Ore Shoot and Highland Boy Drainage Gallery)	Leave in Place	N/A
North Ore Shoot Hoist and Head Frame	Demo and Reclaim	Final
Miscellaneous Power Lines	Demo and Reclaim	Final
Miscellaneous Tunnels	Demo and Reclaim	Final
Mine Access Road	Leave in Place	N/A
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
MINE WASTE DISPOSAL		
Small Bingham Reservoir	Leave in Place	N/A
Large Bingham Reservoir System	Leave in Place	N/A
Precipitation Plant (Remaining Facilities)	Demo, Remed and Reclaim	Interim Final (1)
Water Management System Facilities	Leave in Place	N/A
ARD Collection System Facilities	Leave in Place	N/A
Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place-Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (4) (2)
ORE TRANSFER MINE TO PROCESS		

Ore Reload	Demo and Reclaim	Final
Rail Tracks and Ties	Demo and Reclaim	Interim
Rail Ballast	Remed and Reclaim	Interim
Copperton Rail Yard	Demo and Reclaim	Final
Railroad Car Repair Shop	Demo and Reclaim	Final
Ore Conveyor (in-pit and 5490 Tunnel)	Demo	Final
Asphalt/Concrete Areas	Demo and Reclaim	Final

ORE PROCESSING FACILITIES

Magna Concentrator Area	Demo, Remed and Reclaim	Interim
Magna Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
Arthur Shops Area	Demo and Reclaim	Final
Arthur Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
Bonneville Area	Demo and Reclaim	Final Completed
Bonneville Asphalt/Concrete Parking Areas	Demo and Reclaim	Final Completed

TAILINGS DISPOSAL

Magna Tailings Pond Structures	Demo and Reclaim	Interim
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EXCESS PROCESS WATER DISPOSAL

Excess Process Water Disposal Structures	Leave in Place	N/A
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NOTE: Any facilities to be left in place will have a post mining use.

(1) The majority of facilities were demolished in 2005.

(2) As described in Section 5, follow-up remediation is currently planned to remove gypsum-bearing sludge from the repository in the Evaporation Pond area.

APPENDIX 4

Application for Mineral Mine Plan Revision or Amendment
NORTH ORE SHOOT SHAFT RECOVERY PROJECT

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Kennecott Utah Copper</u>			
Mine Name: <u>Bingham Canyon Mine</u>		File Number: <u>M/035 / 002</u>	
<small>Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.</small>			
DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 2-1 with Figure 2-1 (R2) in the BCM 2003 Reclamation and Water Management Plan.
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Figure 3-7 with Figure 3-7 (R2) in the BCM 2003 Reclamation and Water Management Plan.
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Table 2-1 (R2) with Table 2-1 (R3) in the BCM 2003 Reclamation and Water Management Plan.
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations herein.

ROHAN M'GOWAN-JACKSON
Print Name

R. McGowan-Jackson MGR HSE + SD
Sign Name, Position

2/16/07
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

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FOR DOGM USE ONLY:	
File #: <u>M/</u> <u>/</u>	
Approved: _____	
Bond Adjustment: from (\$)	
to \$ _____	

Kennecott Utah Copper Corporation
P.O. Box 6001
Magna, Utah 84044-6001
(801) 569-6000

(801) 569-6356 (Phone)
(801) 569-7192 (Fax)

Rohan McGowan-Jackson
Manager, Health, Safety & Environment
and Sustainable Development



February 16, 2007

Mary Ann Wright
State of Utah
Department of Natural Resources/DOGM
PO Box 145801
Salt Lake City, UT 84114-5801

RECEIVED

FEB 16 2007

DIV. OF OIL, GAS & MINING

Ongoing Activity: North Ore Shoot Shaft Recovery at Kennecott Utah Copper's Bingham Canyon Mine – DOGM Permit #M/035/002

Dear Mary Ann,

In an effort to continue providing DOGM with updates of relevant information associated with ongoing activities please see attached information regarding Kennecott Utah Copper's (KUC) plans to complete shaft recovery work for the North Ore Shoot (NOS).

The NOS development/service shaft was constructed between March 13, 1981 and November 7, 1983, requiring a total of 894 days. The ultimate depth of the shaft is 2,871 ft amsl, with a number of excavated underground workings that intersecting the shaft at various elevations. During the early to mid 1980's KUC conducted underground mining and exploration activities within the underground NOS workings.

The NOS shaft is currently used for open pit dewatering purposes. The shaft opening is overlain by waste rock and KUC is planning to recover access to this shaft in order to allow improved access for pump maintenance and further resource exploration activities.

KUC is of the opinion that this activity is within the approval envelope associated with our existing NOI and therefore should be considered an update and not an amendment. However, for ease of updating DOGM files, KUC has provided information consistent with Form MR-REV. As per previous correspondence, submission of this form should not be construed as an admission on KUC's part that KUC is required to obtain DOGM approval for this activity.

Consistent with this position, the following information is attached for your files:

1. FORM MR-REV: Information for the North Ore Shoot Shaft Recovery Project (M/035/002)

Please see attached the following drawings for the purposes of updating the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

- Figure 2-1(R2) Map of Surface Facilities in the Vicinity of the Bingham Canyon Mine.
- Figure 3-7 (R2) Water levels in the Paleozoic Bedrock Aquifer around the Bingham Canyon Mine Open Pit Fall 2006
- Table 2-1 (R3) Facilities and Structures within the Permit Boundaries.

Figure 2-1 (R2) has been updated to show the 2006 mine topography as well as current locations of mine facilities at 6190. Figure 2-1(R2) also shows the location of planned surface facilities associated with the North Ore Shoot. KUC suggests that the attached Figure 2-1 (R2) replaces the existing Figure 2-1 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

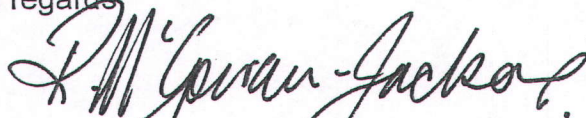
Figure 3-7 (R2) includes updated information associated Paleozoic bedrock water elevations for existing wells, shafts and tunnels as well as existing underground workings associated with the North Ore Shoot Shaft that were not included on the original Figure 3-7. KUC suggests that the attached Figure 3-7 (R2) replace the existing Figure 3-7 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Table 2-1 has been updated to include power lines and miscellaneous shafts (i.e. NOS) associated with dewatering that will remain in place after mining activities cease. The table has also been updated to include NOS surface facilities that will be demolished and reclaimed at the end of mine life, assuming they are not needed for any continuing dewatering activities. KUC suggests that the attached Table 2-1 (R3) replaces the existing table 2-1 (R2) within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that the rehabilitation of the North Ore Shoot Shaft will change or adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, NORTH ORE SHOOT (NOS)
SHAFT RECOVERY PROJECT¹**

PERMIT M/035/002

KENNECOTT UTAH COPPER (KUC)

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

¹ KUC is of the opinion that the activities addressed in this form are within the approval envelope associated with the existing NOI and are therefore an update and not an amendment. For DOGM's convenience and at its request, KUC has provided the updated information on Form MR-REV. Submission of this form should not be construed as a KUC admission that DOGM approval is required.

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 2-1 (R2)

Figure 2-1 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing surface facilities in the vicinity of the Bingham Canyon Mine. Figure 2-1 has been updated (Figure 2-1 (R2)) with 2006 topography as well as current mine facilities at the 6190 foot elevation and planned new surface facilities associated with the North Ore Shoot (NOS) Shaft. New NOS surface facilities will include a head frame, hoist as well as additional ancillary buildings. The approximate location of these facilities are depicted in the attached updated Figure 2-1 (R2). Other than those new surface facilities the location and depth of the NOS will remain consistent with the details in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan. Figure 2-1 (R2) is contained within Appendix 1 of this document.

Figure 3-7 (R2)

Figure 3-7 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing well, shaft and tunnel water elevations within Paleozoic bedrock in addition to locations of tunnels, shafts and underground workings. Although Figure 3-7 shows the location of the NOS shaft, it did not show the location of existing underground workings associated with the NOS shaft. The existing NOS underground workings have been added to Figure 3-7 (R2) which is contained within Appendix 2 of this document. To the extent that additional underground workings are created in association with the currently planned NOS Recovery Project and future exploration, they will be added to Figure 3-7 in future updates when their specific location is known.

III. OPERATION PLAN

Existing NOS Shaft Configuration

The NOS shaft is located north of the Bingham Pit, about 1750 feet north east of the 6190 truck shops at an elevation of 6190 feet. Similar to several other existing shafts and tunnels within the Bingham Canyon Mine, the NOS shaft and associated underground workings were initially constructed to conduct mine development and exploration activities. The NOS development/service shaft was constructed between March 13, 1981 and November 7, 1983 down to a depth of 2,871 feet amsl and included numerous underground workings intersecting the shaft at various elevations. By the mid 1980's, KUC was using the NOS shaft for dewatering purposes within the Bingham Canyon open pit.

In 1997 the shaft was sealed with an 8-foot reinforced concrete cap and was then buried by subsequent waste rock dumps. The current NOS Shaft is overlain by approximately 230 feet of waste rock up to an elevation of 6190 feet amsl, thus the actual NOS collar is located at 5960 feet amsl. At the 5960 ft level the 8-foot concrete cap covers the existing NOS shaft apart for the allowance of two pump strings which run up through the overlying waste rock and daylight at 6190. Two submersible dewatering pumps are currently installed within the NOS shaft. The shaft bottom is at 2871 feet amsl and seven separate underground workings intersect the shaft at elevations ranging between 3000 feet amsl and 5400 feet amsl.

Similar to existing exploration conducted within the open pit, KUC would like to have the ability to conduct exploration from existing mine workings located within the NOS shaft. Furthermore, waste rock settlement above the NOS collar has resulted in repeated collapse and separation of the casing associated with the two pumps, making it very difficult to pull the pumps for repair and/or replacement. In order to facilitate underground exploration activities as well as improve the current dewatering situation in NOS, KUC has plans to rehabilitate the NOS shaft.

NOS Shaft Recovery Project

In general the NOS recovery project consists of the design, engineering and construction of a new shaft collar at the 6190 surface level and installation of a 230 foot vertical shaft through waste rock from 6190 down to 5960 which is required to access the existing concrete cap covering the NOS shaft. KUC will then remove the existing concrete cap and existing submersible pumps and start rehabilitating the shaft from 5960 foot elevation level to the bottom level (2871 feet amsl). Once KUC can safely gain access, existing mine workings between 5400 foot elevation down to the 3000 foot elevation will be rehabilitated. As part of the construction effort, KUC will install a new permanent pumping system to continue dewatering efforts.

On the surface, KUC will relocate and/or modify existing surface utilities that currently support NOS dewatering efforts. KUC will also construct a hoist, head frame and ancillary equipment to assist with exploration activities from the NOS mine workings.

Once the NOS shaft has been rehabilitated KUC will continue to use the shaft for dewatering and exploration activities similar to activities that were conducted in the original NOS workings from 1981 to 1985. At the end of mine life, all surface facilities will be removed except for any which may be needed to support any continuing dewatering efforts.

The total number of surface acres affected and permitted disturbed acreage will be unchanged and remain consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with the NOS recovery project will take place within the current disturbed footprint and will not result in any newly disturbed areas.

There will be no changes to the operating plan, as KUC will continue to operate open pit mining, removing ore, placing waste rock on top of existing waste rock dumps and continuing exploration, development and dewatering activities within the permit boundary and existing disturbed areas. In addition, KUC's general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps (Figure 4-6) will not change as a result of this activity.

Figure 2-1 and Figure 3-7 have been updated to include existing and planned NOS surface facilities as well as existing underground mine workings, while Table 2-1 has been updated to include NOS and associated dewatering utilities. Appendix 3 contains an updated version of Table 2-1 (R3) while Appendix 4 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The NOS Shaft recovery project will not impact KUC's reclamation commitments. KUC is simply rehabilitating an existing shaft and underground mine workings to safely facilitate continued dewatering for open pit purposes as well as on going exploration activities. Surface facilities not associated with any post closure dewatering activities will be removed once mining activities at the Bingham Canyon mine cease. There will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. No additional impacts to surface or groundwater systems are expected beyond those that already exist from historic and ongoing dewatering. KUC has been dewatering the bedrock aquifer via the NOS shaft since the mid-1980's. Current and future dewatering activities will be from bedrock with low to moderate permeability. Because permeability in the surrounding quartzites are relatively low, the NOS shaft and workings will be surrounded by high pressure groundwater and hydraulic gradients are expected to be steep. As a consequence, current and future dewatering activities are expected to be localized about the NOS shaft workings. Monitor wells screened in the same

geologic formation (Paleozoic bedrock) as NOS maintain water elevations approximately 1000 feet higher than pumped water elevations at NOS and show no correlation with respect to water level changes during NOS pump down times.

Since there will be a hiatus in dewatering activities for approximately 6 months between the time the two submersible pumps are removed and subsequently replaced, KUC will need to increase pumping beyond the current level to dewater the water level rebound. This may occur for up to 20 months before steady state pumping is achieved and flow is substantially decreased.

3. The NOS shaft recovery will occur on an existing disturbed waste rock disposal area and thus will not impact existing soil resources.
4. The rehabilitation of the existing NOS shaft will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). Since the NOS shaft already exists within a disturbed waste rock area there will be no additional disturbance of native ground and thus the project will not further degrade surface erosion or slope stability.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation. At the end of mine life, all surface facilities associated with the NOS will be removed except for any which may be needed to support any continuing dewatering efforts. KUCC continues to plan reclamation treatments consistent with Figure 4-6 as well as the Lower Bingham Canyon commitments outlined in the January 21, 2003 letter to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

APPENDIX 1

Figure 2-1 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 2

Figure 3-7 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 4

Application for Mineral Mine Plan Revision or Amendment NORTH ORE SHOOT SHAFT RECOVERY PROJECT

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 2

Figure 3-7 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

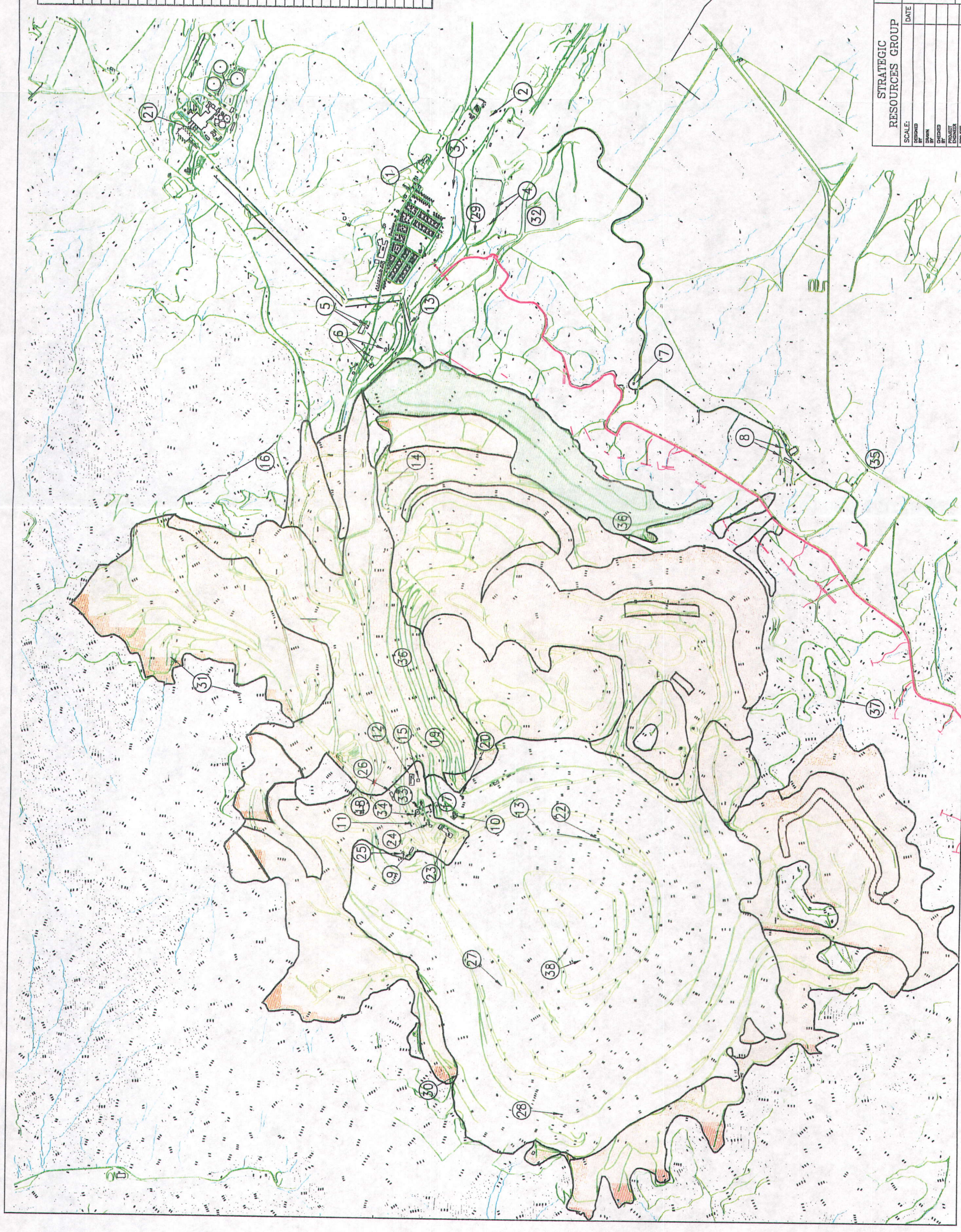
BINGHAM CANYON MINE SURFACE FACILITIES (PERMIT # M035002)	
Area	Description
1	Old Division Headquarters
2	Small Bingham Reservoir
3	Copperton Rail Yard
4	Large Bingham Reservoir
5	Geology Building and Core Shed
6	South Area Water Service Administration and Warehouses
7	Midas pump station
8	Lark Mine Buildings
9	Markham Shop
10	Visitor center
11	16180 Waste Pad
12	Copperfield Truck Shop
13	Ore conveyor and S490 Tunnel
14	East 1 Pump station
15	Truck Wash
16	West 1 pump station
17	Training center
18	Explosives Shops
19	Process Water Tank
20	Mine Dispatch
21	Copperton Concentrator (Not included in this permit)
22	In-pit crusher
23	Truck Shop (6180)
24	Change house
25	Core 80 fuel and Luba station
26	North Ore Shoot Shaft Head Frame and Hoist
27	Carr Fork Exhaust Shaft and Pine Canyon Tunnel
28	Utah Metals Tunnel
29	Deslating Basin
30	Apex Shaft
31	SWEV Pilot Plant
32	Biosulfide Plant and Membrane Filtration Plant
33	Main Substation
34	6180 Mine Administration Building
35	Mine Entrance (Lark Gate)
36	Mine Access Road
37	Yosemite Road (Berna HWY)
38	Highland Boy Drainage Gully (Berna HWY)

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DIVISION OF OIL, GAS & MINING

- DOG Permit Boundary
- Legal Section Line
- Cut-Off Walls
- Drainage System
- Current Reclaimed Waste Rock Disposal Area
- Current Disturbed Waste Rock Disposal Area
- Current Disturbed Mine Area

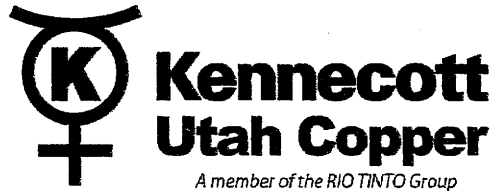


STRATEGIC RESOURCES GROUP	KENNECOTT UTAH COPPER
SCALE:	FIGURE 2-1 (R2)
DRAWN BY:	MAP OF SURFACE FACILITIES
CHECKED BY:	IN THE VICINITY OF THE
ENGINEER:	BINGHAM CANYON MINE
Job No. ---	Dwg. No. ---
REV	REV

Kennecott Utah Copper Corporation
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Rohan McGowan-Jackson
Manager, Health, Safety & Environment
and Sustainable Development



February 16, 2007

Mary Ann Wright
State of Utah
Department of Natural Resources/DOGM
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Salt Lake City, UT 84114-5801

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FEB 16 2007

DIV. OF OIL, GAS & MINING

Ongoing Activity: Highland Boy Drainage Gallery at Kennecott Utah Copper's Bingham Canyon Mine – DOGM Permit #M/035/002

Dear Mary Ann,

In an effort to continue providing DOGM with relevant information associated with ongoing activities please see attached information regarding Kennecott Utah Copper's (KUC) intention to install a drainage gallery in the Highland Boy corner of the Bingham Canyon Mine open pit. The underground drainage gallery will depressurize this area of the pit wall more quickly and efficiently than horizontal drain holes currently being utilized in other areas of the open pit. As with water from these existing drains and other pit tunnels, the Highland Boy water will be directed to the existing pit sump.

KUC is of the opinion that this activity is within the approval envelope associated with our existing NOI and therefore should not be considered as an amendment. However, for ease of updating DOGM files, KUC has provided information consistent with Form MR-REV. As per previous correspondence, submission of this form should not be construed as an admission on KUC's part that KUC is required to obtain DOGM approval for this activity.

Consistent with this position, the following information is attached for your files:

1. FORM MR-REV: Information for the Highland Boy Drainage Gallery (M/035/002)

Please see attached the following drawings for the purposes of updating the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

- Figure 2-1(R2) Map of Surface Facilities in the Vicinity of the Bingham Canyon Mine.

- Figure 3-7 (R3) Locations of Underground Mine Workings and Water levels in the Paleozoic Bedrock Aquifer around the Bingham Canyon Mine Open Pit (2006)
- Table 2-1 (R3) Facilities and Structures within the Permit Boundaries.

Figure 2-1 (R2) has been updated to show the 2006 mine topography as well as current locations of mine facilities at the 6190 foot elevation. Figure 2-1(R2) also shows the location of two in-pit surface portals associated with the Highland Boy Drainage Gallery. KUC suggests that the attached Figure 2-1 (R2) replaces the existing Figure 2-1 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Figure 3-7 (R3) includes updated information associated with Paleozoic bedrock water elevations for existing wells, shafts and tunnels as well as the location of planned underground workings associated with the Highland Boy Drainage Gallery. KUC suggests that the attached Figure 3-7 (R3) replaces the existing Figure 3-7 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Table 2-1 has been updated to include HBDG. KUC suggests that the attached Table 2-1 (R3) replaces the existing Table 2-1 (R2) within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that the installation of the Highland Boy Drainage Gallery will adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards,



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, HIGHLAND BOY DRAINAGE
GALLERY¹**

PERMIT M/035/002

KENNECOTT UTAH COPPER (KUC)

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

¹ KUC is of the opinion that the activities addressed in this form are within the approval envelope associated with the existing NOI and are therefore an update and not an amendment. For DOGM's convenience and at its request, KUC has provided the updated information on Form MR-REV. Submission of this form should not be construed as a KUC admission that DOGM approval is required.

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 2-1 (R2)

Figure 2-1 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing surface facilities in the vicinity of the Bingham Canyon Mine. Figure 2-1 has been updated (Figure 2-1 (R2)) with 2006 topography as well as current mine facilities at the 6190 foot elevation and the location of two surface portals for the Highland Boy Drainage Gallery (HBDG). Other than the portals and some minor ancillary facilities (i.e. substation), there will be no additional surface facilities or structures associated with the HBDG project. The approximate location of these facilities are depicted in the attached updated Figure 2-1 (R2), contained within Appendix 1.

Figure 3-7 (R3)

Figure 3-7 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing well, shaft and tunnel water elevations within Paleozoic bedrock from spring 2001 in addition to locations of tunnels, shafts and underground workings. Figure 3-7 has been updated to Figure 3-7 (R3) and now includes the planned Highland Boy Drainage Gallery (HBDG) underground workings. Figure 3-7 (R3) is contained within Appendix 2 of this document.

III. OPERATION PLAN

Current Situation in the Highland Boy Area

The Highland Boy area is located in the south west corner of the open pit. This area is surrounded from above by a large drainage area comprising native water sheds as well as pit slopes and old waste rock dumps. Approximately 950 acres of native areas between Sap and Muddy Gulch as well as pit slopes and waste rock dumps that drain into the Highland Boy corner of the open pit. While some of this water is already

collected via existing pit pumping activities, a portion of the water is perched and thus not drained through existing pit dewatering. The presence of perched water in the Highland Boy corner of the open pit is presenting a safety challenge with respect to the current open pit mine plan. To facilitate safe ore access in the Highland Boy corner of the open pit, KUC has plans to construct a depressurization drainage gallery. The drainage gallery will depressurize this area of the pit wall more quickly and efficiently than horizontal drain holes of that kind being utilized in other areas of the pit. As with the water from these existing drains and other tunnels that drain into the pit, the Highland Boy water will be directed to the existing in pit sump.

Highland Boy Drainage Gallery

In general the Highland Boy Drainage Gallery (HBDG) consists of the design, engineering and construction of two surface portals at the bottom of the Bingham Canyon open pit that will be connected by 8,200 feet of underground workings. The underground workings will consist of a 15-ft by 15-ft underground drift, while the two portals will be 18-ft by 18-ft with 100-ft of lateral drift. Inside the HBDG, KUC will install twelve drilling stations to facilitate additional depressurization as well as two sump pump stations and associated water collection piping. Additional facilities will consist of ventilation, electrical and communication distribution systems as well as two pump stations to discharge water to the existing pit pumping sump. The HBDG workings may also provide access for underground exploration and resource assessment activities.

The two surface portals will daylight at an elevation of approximately 4765 feet amsl in the Bingham Canyon open pit. As KUC continues to mine in the area, the portals will be continually re-established with each pushback. In addition to the two portals, surface facilities will also include a substation. At the end of mine life, all surface facilities will be removed except for any which may be needed to support any continued depressurization efforts.

The total number of surface acres affected and permitted disturbed acreage remains consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with the HBDG project will take place within the current disturbed footprint and will not result in any newly disturbed areas.

There will be no major changes to the operating plan, as KUC will continue to operate open pit mining, removing ore, placing waste rock on top of existing waste rock dumps and continuing exploration and dewatering activities within the permit boundaries and existing disturbed areas. In addition, KUC's general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps (Figure 4-6) will not change as a result of this activity.

Figure 2-1 and Figure 3-7 have been updated to include HBDG surface and underground workings, while Table 2-1 has been updated to include HBDG and associated dewatering utilities. Appendix 3 contains an updated version of Table 2-1 (R3) while Appendix 4 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The HBDG will not impact KUC's reclamation commitments. KUC is installing mine workings to facilitate depressurization of perched water within the existing open pit high wall. The HBDG will allow KUC to safely access ore in the area for open pit purposes. Surface facilities not associated with post closure dewatering activities will be removed once mining activities at the Bingham Canyon mine cease. There will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. There will be no additional impacts to surface or groundwater systems beyond the impacts that already exist from dewatering due to open pit operations. KUC has been conducting dewatering activities in the Bingham Canyon mine open pit for the past 100 years. Since KUC will be dewatering a hydraulically isolated perched water zone in the pit wall, no impacts are expected to the regional water table.

During initial dewatering efforts from the HBDG, KUC will likely observe a short term surge in flows to the pit pumping sump, however within approximately 3 months the flow should reach steady state and only fluctuate seasonally.

3. The HBDG will be constructed within the existing disturbed footprint of the Bingham Canyon mine open pit and thus will not impact existing soil resources.
4. Construction of the HBDG will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). Since the HBDG will be constructed within the disturbed area of the Bingham Canyon mine open pit, there will be no additional disturbance of native ground and thus the project will not further degrade surface erosion or slope stability.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation. KUCC continues to plan reclamation treatments consistent with Figure 4-6 as well as the Lower Bingham Canyon commitments outlined in the January 21, 2003 letter to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

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Rohan McGowan-Jackson
Manager, Health, Safety & Environment
and Sustainable Development



February 16, 2007

Mary Ann Wright
State of Utah
Department of Natural Resources/DOGM
PO Box 145801
Salt Lake City, UT 84114-5801

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FEB 16 2007

DIV. OF OIL, GAS & MINING

Ongoing Activity: North Ore Shoot Shaft Recovery at Kennecott Utah Copper's Bingham Canyon Mine – DOGM Permit #M/035/002

Dear Mary Ann,

In an effort to continue providing DOGM with updates of relevant information associated with ongoing activities please see attached information regarding Kennecott Utah Copper's (KUC) plans to complete shaft recovery work for the North Ore Shoot (NOS).

The NOS development/service shaft was constructed between March 13, 1981 and November 7, 1983, requiring a total of 894 days. The ultimate depth of the shaft is 2,871 ft amsl, with a number of excavated underground workings that intersecting the shaft at various elevations. During the early to mid 1980's KUC conducted underground mining and exploration activities within the underground NOS workings.

The NOS shaft is currently used for open pit dewatering purposes. The shaft opening is overlain by waste rock and KUC is planning to recover access to this shaft in order to allow improved access for pump maintenance and further resource exploration activities.

KUC is of the opinion that this activity is within the approval envelope associated with our existing NOI and therefore should be considered an update and not an amendment. However, for ease of updating DOGM files, KUC has provided information consistent with Form MR-REV. As per previous correspondence, submission of this form should not be construed as an admission on KUC's part that KUC is required to obtain DOGM approval for this activity.

Consistent with this position, the following information is attached for your files:

1. FORM MR-REV: Information for the North Ore Shoot Shaft Recovery Project (M/035/002)

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APR 12 2007

DIV. OF OIL, GAS & MINING

Please see attached the following drawings for the purposes of updating the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

- Figure 2-1(R2) Map of Surface Facilities in the Vicinity of the Bingham Canyon Mine.
- Figure 3-7 (R2) Water levels in the Paleozoic Bedrock Aquifer around the Bingham Canyon Mine Open Pit Fall 2006
- Table 2-1 (R3) Facilities and Structures within the Permit Boundaries.

Figure 2-1 (R2) has been updated to show the 2006 mine topography as well as current locations of mine facilities at 6190. Figure 2-1(R2) also shows the location of planned surface facilities associated with the North Ore Shoot. KUC suggests that the attached Figure 2-1 (R2) replaces the existing Figure 2-1 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

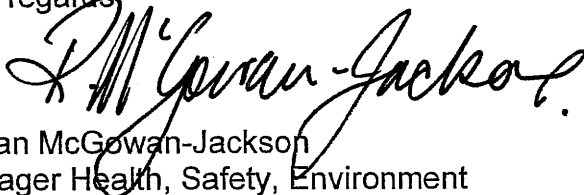
Figure 3-7 (R2) includes updated information associated Paleozoic bedrock water elevations for existing wells, shafts and tunnels as well as existing underground workings associated with the North Ore Shoot Shaft that were not included on the original Figure 3-7. KUC suggests that the attached Figure 3-7 (R2) replace the existing Figure 3-7 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Table 2-1 has been updated to include power lines and miscellaneous shafts (i.e. NOS) associated with dewatering that will remain in place after mining activities cease. The table has also been updated to include NOS surface facilities that will be demolished and reclaimed at the end of mine life, assuming they are not needed for any continuing dewatering activities. KUC suggests that the attached Table 2-1 (R3) replaces the existing table 2-1 (R2) within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that the rehabilitation of the North Ore Shoot Shaft will change or adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, NORTH ORE SHOOT (NOS)
SHAFT RECOVERY PROJECT¹**

PERMIT M/035/002

KENNECOTT UTAH COPPER (KUC)

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

¹ KUC is of the opinion that the activities addressed in this form are within the approval envelope associated with the existing NOI and are therefore an update and not an amendment. For DOGM's convenience and at its request, KUC has provided the updated information on Form MR-REV. Submission of this form should not be construed as a KUC admission that DOGM approval is required.

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 2-1 (R2)

Figure 2-1 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing surface facilities in the vicinity of the Bingham Canyon Mine. Figure 2-1 has been updated (Figure 2-1 (R2)) with 2006 topography as well as current mine facilities at the 6190 foot elevation and planned new surface facilities associated with the North Ore Shoot (NOS) Shaft. New NOS surface facilities will include a head frame, hoist as well as additional ancillary buildings. The approximate location of these facilities are depicted in the attached updated Figure 2-1 (R2). Other than those new surface facilities the location and depth of the NOS will remain consistent with the details in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan. Figure 2-1 (R2) is contained within Appendix 1 of this document.

Figure 3-7 (R2)

Figure 3-7 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map showing well, shaft and tunnel water elevations within Paleozoic bedrock in addition to locations of tunnels, shafts and underground workings. Although Figure 3-7 shows the location of the NOS shaft, it did not show the location of existing underground workings associated with the NOS shaft. The existing NOS underground workings have been added to Figure 3-7 (R2) which is contained within Appendix 2 of this document. To the extent that additional underground workings are created in association with the currently planned NOS Recovery Project and future exploration, they will be added to Figure 3-7 in future updates when their specific location is known.

III. OPERATION PLAN

Existing NOS Shaft Configuration

The NOS shaft is located north of the Bingham Pit, about 1750 feet north east of the 6190 truck shops at an elevation of 6190 feet. Similar to several other existing shafts and tunnels within the Bingham Canyon Mine, the NOS shaft and associated underground workings were initially constructed to conduct mine development and exploration activities. The NOS development/service shaft was constructed between March 13, 1981 and November 7, 1983 down to a depth of 2,871 feet amsl and included numerous underground workings intersecting the shaft at various elevations. By the mid 1980's, KUC was using the NOS shaft for dewatering purposes within the Bingham Canyon open pit.

In 1997 the shaft was sealed with an 8-foot reinforced concrete cap and was then buried by subsequent waste rock dumps. The current NOS Shaft is overlain by approximately 230 feet of waste rock up to an elevation of 6190 feet amsl, thus the actual NOS collar is located at 5960 feet amsl. At the 5960 ft level the 8-foot concrete cap covers the existing NOS shaft apart for the allowance of two pump strings which run up through the overlying waste rock and daylight at 6190. Two submersible dewatering pumps are currently installed within the NOS shaft. The shaft bottom is at 2871 feet amsl and seven separate underground workings intersect the shaft at elevations ranging between 3000 feet amsl and 5400 feet amsl.

Similar to existing exploration conducted within the open pit, KUC would like to have the ability to conduct exploration from existing mine workings located within the NOS shaft. Furthermore, waste rock settlement above the NOS collar has resulted in repeated collapse and separation of the casing associated with the two pumps, making it very difficult to pull the pumps for repair and/or replacement. In order to facilitate underground exploration activities as well as improve the current dewatering situation in NOS, KUC has plans to rehabilitate the NOS shaft.

NOS Shaft Recovery Project

In general the NOS recovery project consists of the design, engineering and construction of a new shaft collar at the 6190 surface level and installation of a 230 foot vertical shaft through waste rock from 6190 down to 5960 which is required to access the existing concrete cap covering the NOS shaft. KUC will then remove the existing concrete cap and existing submersible pumps and start rehabilitating the shaft from 5960 foot elevation level to the bottom level (2871 feet amsl). Once KUC can safely gain access, existing mine workings between 5400 foot elevation down to the 3000 foot elevation will be rehabilitated. As part of the construction effort, KUC will install a new permanent pumping system to continue dewatering efforts.

On the surface, KUC will relocate and/or modify existing surface utilities that currently support NOS dewatering efforts. KUC will also construct a hoist, head frame and ancillary equipment to assist with exploration activities from the NOS mine workings.

Once the NOS shaft has been rehabilitated KUC will continue to use the shaft for dewatering and exploration activities similar to activities that were conducted in the original NOS workings from 1981 to 1985. At the end of mine life, all surface facilities will be removed except for any which may be needed to support any continuing dewatering efforts.

The total number of surface acres affected and permitted disturbed acreage will be unchanged and remain consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with the NOS recovery project will take place within the current disturbed footprint and will not result in any newly disturbed areas.

There will be no changes to the operating plan, as KUC will continue to operate open pit mining, removing ore, placing waste rock on top of existing waste rock dumps and continuing exploration, development and dewatering activities within the permit boundary and existing disturbed areas. In addition, KUC's general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps (Figure 4-6) will not change as a result of this activity.

Figure 2-1 and Figure 3-7 have been updated to include existing and planned NOS surface facilities as well as existing underground mine workings, while Table 2-1 has been updated to include NOS and associated dewatering utilities. Appendix 3 contains an updated version of Table 2-1 (R3) while Appendix 4 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The NOS Shaft recovery project will not impact KUC's reclamation commitments. KUC is simply rehabilitating an existing shaft and underground mine workings to safely facilitate continued dewatering for open pit purposes as well as on going exploration activities. Surface facilities not associated with any post closure dewatering activities will be removed once mining activities at the Bingham Canyon mine cease. There will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. No additional impacts to surface or groundwater systems are expected beyond those that already exist from historic and ongoing dewatering. KUC has been dewatering the bedrock aquifer via the NOS shaft since the mid-1980's. Current and future dewatering activities will be from bedrock with low to moderate permeability. Because permeability in the surrounding quartzites are relatively low, the NOS shaft and workings will be surrounded by high pressure groundwater and hydraulic gradients are expected to be steep. As a consequence, current and future dewatering activities are expected to be localized about the NOS shaft workings. Monitor wells screened in the same

geologic formation (Paleozoic bedrock) as NOS maintain water elevations approximately 1000 feet higher than pumped water elevations at NOS and show no correlation with respect to water level changes during NOS pump down times.

Since there will be a hiatus in dewatering activities for approximately 6 months between the time the two submersible pumps are removed and subsequently replaced, KUC will need to increase pumping beyond the current level to dewater the water level rebound. This may occur for up to 20 months before steady state pumping is achieved and flow is substantially decreased.

3. The NOS shaft recovery will occur on an existing disturbed waste rock disposal area and thus will not impact existing soil resources.
4. The rehabilitation of the existing NOS shaft will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). Since the NOS shaft already exists within a disturbed waste rock area there will be no additional disturbance of native ground and thus the project will not further degrade surface erosion or slope stability.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation. At the end of mine life, all surface facilities associated with the NOS will be removed except for any which may be needed to support any continuing dewatering efforts. KUCC continues to plan reclamation treatments consistent with Figure 4-6 as well as the Lower Bingham Canyon commitments outlined in the January 21, 2003 letter to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

APPENDIX 1

Figure 2-1 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 3

Table 2-1 (R3)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
MINE		
Water Tanks	Demo and Reclaim	Final
General Buildings	Demo and Reclaim	Final
Visitors Center and Parking Area	Leave in Place	N/A
Lead Mine Townsite	Demo and Reclaim	Final Completed
Lark Mine Buildings	Demo and Reclaim	Final
Yosemite Road	Demo and Reclaim	Final
Yosemite Truck Shop & Dispatch Tower	Demo	Final Completed
Explosive Storage	Demo and Reclaim	Final
Dry Fork Warehouse & Shops	Demo	Interim Completed
In-Pit Crusher	Demo	Final
6190 Truck Shop	Demo	Final
Code 80 Fuel & Lube Shop	Demo and Reclaim	Final
Miscellaneous Shafts	Demo and Reclaim	Final
44 KV Power Distribution Line	Leave in Place	N/A
Power Lines and Miscellaneous Shafts Associated w/Dewatering (i.e. North Ore Shoot and Highland Boy Drainage Gallery)	Leave in Place	N/A
North Ore Shoot Hoist and Head Frame	Demo and Reclaim	Final
Miscellaneous Power Lines	Demo and Reclaim	Final
Miscellaneous Tunnels	Demo and Reclaim	Final
Mine Access Road	Leave in Place	N/A
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
MINE WASTE DISPOSAL		
Small Bingham Reservoir	Leave in Place	N/A
Large Bingham Reservoir System	Leave in Place	N/A
Precipitation Plant (Remaining Facilities)	Demo, Remed and Reclaim	Interim Final (1)
Water Management System Facilities	Leave in Place	N/A
ARD Collection System Facilities	Leave in Place	N/A
Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place-Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (1) (2)
ORE TRANSFER MINE TO PROCESS		

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
MINE		
Water Tanks	Demo and Reclaim	Final
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Lark Mine Buildings	Demo and Reclaim	Final
Yosemite Road	Demo and Reclaim	Final
Yosemite Truck Shop & Dispatch Tower	Demo	Final Completed
Explosive Storage	Demo and Reclaim	Final
Dry Fork Warehouse & Shops	Demo	Interim Completed
In-Pit Crusher	Demo	Final
6190 Truck Shop	Demo	Final
Code 80 Fuel & Lube Shop	Demo and Reclaim	Final
Miscellaneous Shafts	Demo and Reclaim	Final
44 KV Power Distribution Line	Leave in Place	N/A
Power Lines and Miscellaneous Shafts Associated w/Dewatering (i.e. North Ore Shoot and Highland Boy Drainage Gallery)	Leave in Place	N/A
North Ore Shoot Hoist and Head Frame	Demo and Reclaim	Final
Miscellaneous Power Lines	Demo and Reclaim	Final
Miscellaneous Tunnels	Demo and Reclaim	Final
Mine Access Road	Leave in Place	N/A
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
MINE WASTE DISPOSAL		
Small Bingham Reservoir	Leave in Place	N/A
Large Bingham Reservoir System	Leave in Place	N/A
Precipitation Plant (Remaining Facilities)	Demo, Remed and Reclaim	Interim Final (1)
Water Management System Facilities	Leave in Place	N/A
ARD Collection System Facilities	Leave in Place	N/A
Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place-Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (1) (2)
ORE TRANSFER MINE TO PROCESS		

APPENDIX 4

Application for Mineral Mine Plan Revision or Amendment
Highland boy Drainage Gallery

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Kennecott Utah Copper</u>			
Mine Name: <u>Bingham Canyon Mine</u>			File Number: <u>M/ 035 / 002</u>
Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.			
DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan :</u>
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Figure 2-1 with Figure 2-1(R2)</u>
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Figure 3-7 with Figure 3-7(R3)</u>
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Table 2-1(R2) with Table 2-1(R3)</u>
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

ROHAN MCGOWAN - JACKSON
Print Name

R. McGowan Jackson Manager HSE +SD
Sign Name, Position

2/16/07
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

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FOR DOGM USE ONLY:	
File #:	<u>M/ 1</u>
Approved:	_____
Bond Adjustment: from (\$)	_____
to \$	_____

APPENDIX 1

Figure 2-1 (R2)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 2

Figure 3-7 (R3)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

APPENDIX 3

Table 2-1 (R3)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
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Lark Mine Buildings	Demo and Reclaim	Final
Yosemite Road	Demo and Reclaim	Final
Yosemite Truck Shop & Dispatch Tower	Demo	Final Completed
Explosive Storage	Demo and Reclaim	Final
Dry Fork Warehouse & Shops	Demo	Interim Completed
In-Pit Crusher	Demo	Final
6190 Truck Shop	Demo	Final
Code 80 Fuel & Lube Shop	Demo and Reclaim	Final
Miscellaneous Shafts	Demo and Reclaim	Final
44 KV Power Distribution Line	Leave in Place	N/A
Power Lines and Miscellaneous Shafts Associated w/Dewatering (i.e. North Ore Shoot and Highland Boy Drainage Gallery)	Leave in Place	N/A
North Ore Shoot Hoist and Head Frame	Demo and Reclaim	Final
Miscellaneous Power Lines	Demo and Reclaim	Final
Miscellaneous Tunnels	Demo and Reclaim	Final
Mine Access Road	Leave in Place	N/A
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
MINE WASTE DISPOSAL		
Small Bingham Reservoir	Leave in Place	N/A
Large Bingham Reservoir System	Leave in Place	N/A
Precipitation Plant (Remaining Facilities)	Demo, Remed and Reclaim	Interim Final (1)
Water Management System Facilities	Leave in Place	N/A
ARD Collection System Facilities	Leave in Place	N/A
Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place-Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (+) (2)
ORE TRANSFER MINE TO PROCESS		

Table 2-1 (R3) Facilities and Structures within the Permit Boundaries

FACILITY DESCRIPTION	CLOSURE APPROACH	STATUS
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Leach Water Pumping Facilities	Demo and Reclaim	Final Interim
6600 ARD Storage and Evaporation Ponds	Leave in Place-Demo	N/A Completed
Pilot-Scale Water Treatment Facilities	Demo and Reclaim Leave in Place	Interim N/A
SX-EW Pilot Plant	Demo and Reclaim or move	Interim
Asphalt/Concrete Parking Areas	Demo and Reclaim	Final
EXCESS MINE WATER DISPOSAL		
Evaporation Ponds and Associated Facilities	Demo, Remed and Reclaim	Completed (+) (2)
ORE TRANSFER MINE TO PROCESS		

APPENDIX 4

Application for Mineral Mine Plan Revision or Amendment
Highland boy Drainage Gallery

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
FEBRUARY 2007**

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Kennecott Utah Copper</u>			
Mine Name: <u>Bingham Canyon Mine</u>		File Number: <u>M/ 035 / 002</u>	
<small>Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.</small>			
DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan :</u> <u>Figure 2-1 with Figure 2-1(R2)</u> <u>Figure 3-7 with Figure 3-7(R3)</u> <u>Table 2-1(R2) with Table 2-1(R3)</u>
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

ROHAN MCGOWAN - JACKSON
Print Name

R. McGowan Jackson Manager HSE +SD
Sign Name, Position

2/16/07
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

O:\FORMS\MR-REV-att.doc

FOR DOGM USE ONLY:

File #: M/ /

Approved: _____

Bond Adjustment: from (\$) _____
to \$ _____

Kennecott Utah Copper Corporation
P.O. Box 6001
Magna, Utah 84044-6001
(801) 569-6000

(801) 569-6356 (Phone)
(801) 569-7192 (Fax)

Rohan McGowan-Jackson
Manager, Health, Safety & Environment
and Sustainable Development



January 25, 2007

Mary Ann Wright
State of Utah
Department of Natural Resources/DOGM
PO Box 145801
Salt Lake City, UT 84114-5801

Ongoing Activity and Re-Establishment of Mine Access Road and Water Pipelines
within the Lower Bingham Canyon Waste Rock Dump at Kennecott Utah Copper's
Bingham Canyon Mine – DOGM Permit #M/035/002

Dear Mary Ann,

In an effort to continue providing DOGM with relevant information associated with ongoing activities please see attached information regarding Kennecott Utah Copper's (KUC) intention to install a pipeline and construct a road along the re-graded face of the Lower Bingham Canyon waste rock disposal area.

On January 21, 2003 KUC sent DOGM a letter outlining plans for waste rock disposal in Lower Bingham Canyon. All construction and reclamation details specified in the letter and the 2003 plan are consistent with KUC's current design plans.

In this regard, prior to the placement of waste rock in Lower Bingham Canyon, it was understood that the existing road connecting the concentrator to the mine as well as two process water pipelines would have to be eliminated and eventually re-established over the final re-graded dump face. At the time this was considered a minor detail that was not originally communicated in the 2003 letter. However, following a request from Doug Jensen from your office, KUC is pleased to provide you with information regarding relocation of the road and pipelines.

KUCC is of the opinion that this activity is within the approval envelope associated with our existing NOI and therefore should not be considered as an amendment. However, for ease of updating DOGM files, KUC has provided information consistent with Form MR-REV. As per previous correspondence, submission of this form should not be construed as an admission on KUC's part that KUC is required to obtain DOGM approval for this activity.

RECEIVED

APR 12 2007

OF OIL, GAS & MINING

Consistent with this position, the following information is attached for your files:

1. FORM MR-REV: Information for the Bingham Canyon Mine, Copperton Concentrator Access Road and Process Water Pipelines (M/035/002)

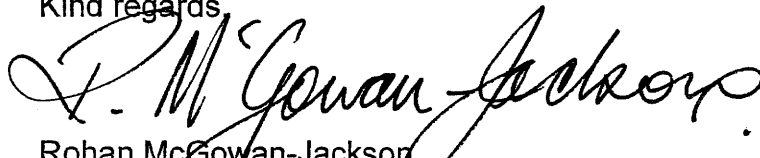
Please see attached an updated version of Figure 4-6 Reclamation Activities on Bingham Canyon Mine Waste Rock Disposal Areas.

This updated figure (Figure 4-6 (R4)) includes information associated with the expected location of the Copperton Concentrator access road and process water pipelines across the Lower Bingham Canyon dump face. KUC suggests that the attached Figure 4-6 (R4) replaces the existing Figure 4-6 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that this activity will adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards,



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

cc: Vicky Peacey
Bruce Jones

bcc: Barrett, Kenneth (KUCC)
Gehring, Dean (KUCC)
Bunkall, Larry (RTSS)
Cononelos, Louie (RTSS)
Costello, Morgan (KUCC)
Himebaugh, Ted (KUCC)
Geoff Bedell (KUCC)
Malmquist, Michael (PBL)
Kaiser, Chris (KUCC)

File: OPS/RR/BCM/Corres.DOGM

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, LOWER BINGHAM CANYON
WASTE ROCK DUMP, PIPELINES AND COPPERTON
CONCENTRATOR ACCESS ROAD**

PERMIT M/035/002

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
JANUARY 2007**

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 4-6

Figure 4-6 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map of the waste rock disposal area showing the tentative reclamation activities that are currently planned. Figure 4-6 has been updated (Figure 4-6 (R4)) to include information associated with the expected location of an access road to the Copperton Concentrator and process water pipelines. Figure 4-6 (R4) is contained within Appendix 1 of this document.

III. OPERATION PLAN

The total number of acres affected and permitted disturbed acreage remains consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with Copperton Concentrator access road and process water pipelines will occur within permitted disturbed areas as a continuation of open pit mining and waste rock disposal operations similar to activities being conducted for the past one hundred years.

There will be no major changes to the operating plan, as KUCC will continue to operate open pit mining, removing ore and placement of waste rock on top of existing waste rock dumps and already disturbed areas.

Kennecott Utah Copper's (KUC) general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps will not change as a result of this activity. As noted on Figure 4-6 in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan, all contacts and surface areas are approximate and are subject to change based upon changes in the mine plan. The same conditions will apply to Figure 4-6 (R4) due to the dynamic nature of mining operations.

Appendix 2 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The installation of a road and pipelines across the Lower Bingham Canyon dump face will not impact KUC's reclamation commitments. Once the road is reclaimed at the end of mine life there will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. There will be no additional impacts to surface or groundwater systems beyond the impacts that already exists and which KUC is addressing from historic operations. KUC is simply adding a road and process water pipelined.
3. The addition of a road and placement of pipelines will be across an existing waste rock disposal area and thus will not impact existing soil resources.
4. The addition of a road and process pipelines will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). The road and pipelines will not further degrade surface erosion or slope stability as the Lower Bingham Canyon dump face will be regarded to 2.75:1 with the addition of water catch basins or benches to reduce surface erosion.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

KUCC continues to plan reclamation treatments consistent with Figure 4-6 and Figure 4-6 (R4) as well as the Lower Bingham Canyon commitments outlined in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan and the January 21, 2003 letter to DOGM.

Updates to Figure 4-6 show the location of the access road to the Copperton Concentrator as well as the process water pipelines. The location of the road and pipelines are approximate and the final extent and configuration may change slightly. Once complete a final as-built map will be submitted to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

APPENDIX 1

Figure 4-6 (R4)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
JANUARY 2007**

APPENDIX 2

**Application for Mineral Mine Plan Revision or Amendment
LOWER BINGHAM CANYON WASTE ROCK DUMP, PIPELINES
AND COPPERTON CONCENTRATOR ACCESS ROAD**

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
JANUARY 2007**

Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Kennerott Utah Copper</u>			
Mine Name: <u>Bingham Canyon Mine</u>		File Number: <u>M/ 035 1002</u>	
<small>Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.</small>			
DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			
			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	<u>Figure 4-6 in "Bingham Canyon Mine 2003 Reclamation and Water Management Plan" with attached Figure 4-6(R4)</u>
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

ROHAN MCGOWAN-JACKSON
Print Name

R. McGowan-Jackson
Sign Name, Position

1/26/07
Date

Return to:

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Phone: (801) 538-5291 Fax: (801) 359-3940

O:\FORMS\MR-REV-att.doc

FOR DOGM USE ONLY:	
File #: <u>M/ 1</u>	
Approved: _____	
Bond Adjustment: from (\$) _____	
to \$ _____	

Kennecott Utah Copper Corporation
P.O. Box 6001
Magna, Utah 84044-6001
(801) 569-6000

(801) 569-6356 (Phone)
(801) 569-7192 (Fax)

Rohan McGowan-Jackson
Manager, Health, Safety & Environment
and Sustainable Development



January 25, 2007

Mary Ann Wright
State of Utah
Department of Natural Resources/DOGM
PO Box 145801
Salt Lake City, UT 84114-5801

Ongoing Activity and Re-Establishment of Mine Access Road and Water Pipelines
within the Lower Bingham Canyon Waste Rock Dump at Kennecott Utah Copper's
Bingham Canyon Mine – DOGM Permit #M/035/002

Dear Mary Ann,

In an effort to continue providing DOGM with relevant information associated with ongoing activities please see attached information regarding Kennecott Utah Copper's (KUC) intention to install a pipeline and construct a road along the re-graded face of the Lower Bingham Canyon waste rock disposal area.

On January 21, 2003 KUC sent DOGM a letter outlining plans for waste rock disposal in Lower Bingham Canyon. All construction and reclamation details specified in the letter and the 2003 plan are consistent with KUC's current design plans.

In this regard, prior to the placement of waste rock in Lower Bingham Canyon, it was understood that the existing road connecting the concentrator to the mine as well as two process water pipelines would have to be eliminated and eventually re-established over the final re-graded dump face. At the time this was considered a minor detail that was not originally communicated in the 2003 letter. However, following a request from Doug Jensen from your office, KUC is pleased to provide you with information regarding relocation of the road and pipelines.

KUCC is of the opinion that this activity is within the approval envelope associated with our existing NOI and therefore should not be considered as an amendment. However, for ease of updating DOGM files, KUC has provided information consistent with Form MR-REV. As per previous correspondence, submission of this form should not be construed as an admission on KUC's part that KUC is required to obtain DOGM approval for this activity.

Consistent with this position, the following information is attached for your files:

1. FORM MR-REV: Information for the Bingham Canyon Mine, Copperton Concentrator Access Road and Process Water Pipelines (M/035/002)

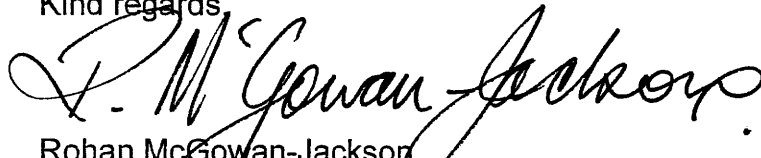
Please see attached an updated version of Figure 4-6 Reclamation Activities on Bingham Canyon Mine Waste Rock Disposal Areas.

This updated figure (Figure 4-6 (R4)) includes information associated with the expected location of the Copperton Concentrator access road and process water pipelines across the Lower Bingham Canyon dump face. KUC suggests that the attached Figure 4-6 (R4) replaces the existing Figure 4-6 within the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

KUCC does not expect that this activity will adversely impact any of the reclamation treatments defined in the Bingham Canyon Mine 2003 Mine Reclamation and Water Management Plan.

Please contact me at 569-6000 or Vicky Peacey (569-7118) if you have any questions about this proposed activity.

Kind regards,



Rohan McGowan-Jackson
Manager Health, Safety, Environment
and Sustainable Development
Kennecott Utah Copper

cc: Vicky Peacey
Bruce Jones

bcc: Barrett, Kenneth (KUCC)
Gehring, Dean (KUCC)
Bunkall, Larry (RTSS)
Cononelos, Louie (RTSS)
Costello, Morgan (KUCC)
Himebaugh, Ted (KUCC)
Geoff Bedell (KUCC)
Malmquist, Michael (PBL)
Kaiser, Chris (KUCC)

File: OPS/RR/BCM/Corres.DOGM

FORM MR-REV

**INFORMATION FOR THE
BINGHAM CANYON MINE, LOWER BINGHAM CANYON
WASTE ROCK DUMP, PIPELINES AND COPPERTON
CONCENTRATOR ACCESS ROAD**

PERMIT M/035/002

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
JANUARY 2007**

I. GENERAL INFORMATION

Location of Proposed Activities:

There are no changes to the location of proposed activities.

Ownership of Land Surface:

There are no changes to ownership of land surface.

Ownership of Minerals:

There are no changes to ownership of minerals.

II. MAPS, DRAWINGS & PHOTOGRAPHS

Figure 4-6

Figure 4-6 within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan for DOGM permit M/035/002 is a map of the waste rock disposal area showing the tentative reclamation activities that are currently planned. Figure 4-6 has been updated (Figure 4-6 (R4)) to include information associated with the expected location of an access road to the Copperton Concentrator and process water pipelines. Figure 4-6 (R4) is contained within Appendix 1 of this document.

III. OPERATION PLAN

The total number of acres affected and permitted disturbed acreage remains consistent with the original 1976 NOI, 1978 Mining and Reclamation contract as well as the 2003 Reclamation and Water Management Plan. All activities associated with Copperton Concentrator access road and process water pipelines will occur within permitted disturbed areas as a continuation of open pit mining and waste rock disposal operations similar to activities being conducted for the past one hundred years.

There will be no major changes to the operating plan, as KUCC will continue to operate open pit mining, removing ore and placement of waste rock on top of existing waste rock dumps and already disturbed areas.

Kennecott Utah Copper's (KUC) general plans regarding the reclamation treatments for the Lower Bingham Canyon waste rock dumps will not change as a result of this activity. As noted on Figure 4-6 in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan, all contacts and surface areas are approximate and are subject to change based upon changes in the mine plan. The same conditions will apply to Figure 4-6 (R4) due to the dynamic nature of mining operations.

Appendix 2 contains a completed "Application for Mineral Mine Plan Revision or Amendment" form showing items that should be replaced within the Bingham Canyon Mine 2003 Reclamation and Water Management Plan.

IV. IMPACT ASSESSMENT

The installation of a road and pipelines across the Lower Bingham Canyon dump face will not impact KUC's reclamation commitments. Once the road is reclaimed at the end of mine life there will be no additional surface or subsurface impacts on the following areas:

1. No potential impacts to state or federal threatened and endangered species or critical habitats since there is no additional disturbed acreage;
2. There will be no additional impacts to surface or groundwater systems beyond the impacts that already exists and which KUC is addressing from historic operations. KUC is simply adding a road and process water pipelined.
3. The addition of a road and placement of pipelines will be across an existing waste rock disposal area and thus will not impact existing soil resources.
4. The addition of a road and process pipelines will not further impact public health or safety or air quality. The activities will remain within the limits of the Bingham Canyon Mine air quality approval order (DAQE-AN0571018-06). The road and pipelines will not further degrade surface erosion or slope stability as the Lower Bingham Canyon dump face will be regarded to 2.75:1 with the addition of water catch basins or benches to reduce surface erosion.
5. KUCC believes there will be no addition impacts to mitigate.

V. RECLAMATION PLAN

KUCC continues to plan reclamation treatments consistent with Figure 4-6 and Figure 4-6 (R4) as well as the Lower Bingham Canyon commitments outlined in the Bingham Canyon Mine 2003 Reclamation and Water Management Plan and the January 21, 2003 letter to DOGM.

Updates to Figure 4-6 show the location of the access road to the Copperton Concentrator as well as the process water pipelines. The location of the road and pipelines are approximate and the final extent and configuration may change slightly. Once complete a final as-built map will be submitted to DOGM.

VI. VARIANCE

KUCC is not requesting a variance.

VII. SURETY

The proposed activities will not result in a substantial change in the amount of work required to complete reclamation.

APPENDIX 1

Figure 4-6 (R4)

KENNECOTT UTAH COPPER CORPORATION

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
JANUARY 2007**